AUTO SECURITY COMPUSTAR

2WAMR Two-Way AM Remote

USER'S GUIDE

By Firstech, LLC.

www.compustar.org

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Safety Information

Please take these safety precautions into consideration under the following conditions:

1. Servicing the vehicle

When servicing your automobile (ie. changing the oil, washing your car), the CompuStar system should be in Valet Mode. There is a safety shutdown switch under the hood that deactivates the remote starter function if the hood is open. However, if the switch has been damaged or the switch has been installed improperly, the vehicle may start when Button II is pressed for 2 seconds, even if the hood is open.

2. Loaning your vehicle to others

Whenever you loan your vehicle to an individual who is not familiar with Compustar, you may want to put the vehicle in Valet mode. This will prevent the borrower from accidentally activating the CompuStar auto-security system.

3. For manual transmission vehicles

If the Compustar 2WAMR is installed in a manual transmission vehicle, extra precautions are required because the Compustar does not monitor the gear shift:

Important! Under normal circumstances, Reservation Mode is cancelled when a door or hatchback opens. Please verify that the opening of any door or hatchback cancels Reservation Mode. If any of the doors or hatchback are not monitored by CompuStar because of improper installation or a faulty dome light switch, do not use the CompuStar and take your vehicle immediately to the dealer for repair. Do not set Reservation Mode if the window(s) are open or if there is anyone inside the vehicle, this includes animals. Remote start installation in a manual transmission vehicle with a convertible top is not recommended.

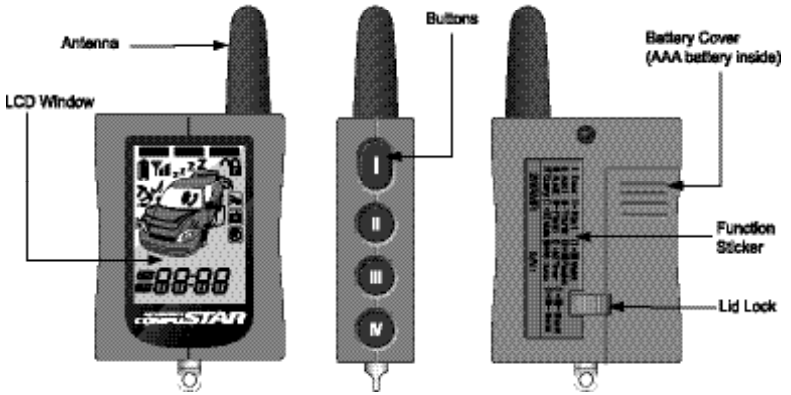
Remote-Pager : 2WAMR w/LCD

The model name, 2WAMR stands for Two Way Amplitude Modulated Remote with Liquid Crystal Display.

This transmitter allows you to activate multiple functions by pressing different combinations of the 4 buttons on the unit.

Description of Remote Appearance

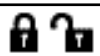
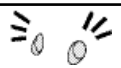
The model name, 2WAMR, stands for 2Way 4 Button Remote.



CompuGLO color LCD

The remote-pager comes with CompuGLO which is a unique color LCD display that visually tells the vehicle owner the security status of your car at all times. There are differing icons that will appear on your CompuGLO LCD indicating what your vehicle is currently doing.

LCD Icons

Icon	Explanation
Timer	Indicates that Timer Mode is on.
Turbo	Indicates that Turbo Mode is on.
Passive	Indicates that Passive Arming Mode is on.
	Displays remaining battery life.
	Indicates that your remote-pager is transmitting signals to the controller unit.
	Indicates that you are in Valet Mode.
	Indicates that your car is locked or unlocked.
	Indicates that the Shock Sensor has been triggered.
	Indicates that your trunk is open.
	Indicates that the RPS is on.
	Indicates that someone is paging you from your vehicle.
	Indicates that your vehicle has auto-started properly or that the ignition is on.
	Indicates that your door is open.
	Indicates that your siren is turned on when locking or unlocking your vehicle.
	Indicates that Vibration Mode is on.
	Indicates that the Shock sensor is turned off.
	Indicates that your Hood is open.
88:88	1. Time Clock. 2. Remainder of the engine running time.
	Indicates that your parking lights are flashing.

Remote-Pager Button Functions

	Button(s)	Pressed For	Function
1	I	1/2 sec	Lock / Arm Unlock / Disarm
2	II	1/2 sec	AUX 1
3	III	1/2 sec	AUX 2
4	IV	1/2 sec	Query Function
5	II-	2 sec	Auto-start Function – on/off
6	III-	2 sec	Trunk Release
7	IV-	2 sec	Panic, Press I to turn off the siren.
8	(I+II)	1/2 sec	Siren Chirp – on/off
9	(I+III)	1/2 sec	Valet Mode – on/off
10	(II+III)	1/2 sec	Passive Arming – on/off
11	(II+IV)	1/2 sec	Timer Start Mode – on/off
12	(III+IV)	1/2 sec	Turbo Mode - on/off
13	(I+III) -	2 sec	Shock Sensor – on/off
14	(I+II) -	2 sec	Programming Menu 1
15	(I+IV) -	2 sec	Programming Menu 2

Note : " — " Represents pressing the button for 2 seconds.
"( )" Represents simultaneously pressing the buttons.
"( ) —" Represents simultaneously pressing the buttons for 2 seconds.

More Button Functions

(1) Time Setting

	Button	PressedFor	Function
STEP 1	(I+III) -	2 sec	Prog Tones will sound for confirmation
STEP 2	(I)	1/2 sec	Time setting is on. The numbers will flash, and tones will sound.
STEP 3	(I)	1/2 sec	Change hour.
	(II)	1/2 sec	Change minutes.
STEP 4	(I+III) -	2 sec	Time setting is off. Tones will sound.

(2) RPS & Vibration mode on or off

	Button	PressedFor	Function
STEP 1	(II+III)-	2 sec	Prog Tones will sound for confirmation
STEP 2	(III)	1/2 sec	ON/OFF RPS on or off, tones will sound for confirmation.
	(IV)	1/2 sec	ON/OFF Vibration mode on or off, tones will sound for confirmation.

Note : Step 2 must be completed within 15 seconds. If not, start over at step 1.

Remote-Pager Learn Routine

The Compustar system will allow up to three remotes to be programmed to one vehicle. Please perform the following procedure to add or reprogram additional remotes.

Step1 : Activate Valet/Programming mode by manually turning the ignition on and off five times (between Acc and On) with the key within a 7 second period. The parking light will flash once with successful completion of this step.

Step2 : Within a 7 second period after cycling the ignition for the 5th time, press button I. The parking lights will flash once to confirm that the transmitter has been programmed. You can continue programming additional remotes. The parking lights will flash two times when the programming mode has expired.

Auto-Start Function

Press button Ⅱ for 2 seconds to auto-start an automatic transmission engine. Remember, that a key in the ignition is required to drive the car.
For manual transmission vehicles, please use reservation mode.

Press button Ⅱ for 2 seconds in order to turn off an auto-started car.

The engine will run 15 or 25 minutes (25 or 45 min for diesel) depending on preset options at the time of installation and then shut off.

- 88:88 shows the amount of run-time left in the remote start mode.

Anti-Grind

The anti-grind circuit (an optional feature provided by your installer) prevents you from engaging the starter on a remote-started vehicle.

Diagnosing problems with Auto-Start

If there is a problem in auto-starting your vehicle,the CompuStar system will do one of two things; if it fails for any of the reasons listed in the table below, it will flash the parkinglights three times then flash the error number. Otherwise, it will attempt to start the vehicle three times. If, after three times, the vehicle will not start or stay running, the CompuStar system will shut down. In either case, please see your installer to resolve the situation.

Error Number (# of times parking lights flash)	**Error Reason**
1	Engine On
2	Key On
3	Door Open
4	Trunk Open
5	Brake On
6	Hood Open
7	Reservation Off (Manual Transmission Only)

Reservation Mode (manual transmission only)

In order to auto-start your manual transmission vehicle, you must first set the CompuStar system to Reservation Mode before leaving your vehicle. The purpose of Reservation Mode is to leave the transmission gear in the neutral position when you leave your vehicle. Reservation mode is intended for use on MANUAL TRANSMISSIONS ONLY and NOT FOR AUTOMATIC TRANSMISSIONS.

Reservation Mode must be engaged each and every time you leave your manual transmission vehicle in order to auto-start it.

Note : The system is not recommended for vehicles with removable tops.

Important requirements to activate Reservation Mode

- The transmission must be in the NEUTRAL position.
- The vehicle windows must be rolled up.
- Do not set the reservation mode with people in the vehicle.
- Do not auto-start the vehicle with people in the it.

Activating Reservation Mode (Manual Transmission only)

Step1 : After arriving at your destination, and BEFORE TURNING YOUR ENGINE OFF, place the transmission in the Neutral position.
Step2 : Activate the parking brake.
Step3 : Remove your foot from the foot brake.
Step4 : Remove the key from the ignition, and the engine will remain running.
Step5 : Exit the vehicle and close the door within two minutes after activating the parking brake. The engine will shut off and reservation mode for the remote-starter is now complete.

Your vehicle is now ready for auto-starting. However, the reservation mode will be cancelled if a door is opened or the CompuStar system is put in Valet mode after the reservation has been set. Once cancelled, you will have to start the vehicle with the key and repeat the above 5 steps if you want to restore reservation mode.

Important! When the vehicle shuts off after reservation mode, the Compustar system will lock/arm the vehicle. Take care to not lock your keys inside.

Important! If you try to auto-start the vehicle when reservation mode has not been set, the auto-start feature will not work.
When you press the auto-start button, the remote will beep three times.
The car parking lights will flash three times, pause, then flash seven times.

Canceling Reservation Mode

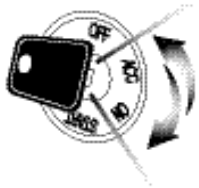
If you do not want to set reservation mode, shut off the engine before you exit the vehicle. The engine will shut off for the following reasons:

-You did not activate the parking brake or pressed the foot brake when you turned the key to the off position.
-You released the parking brake while the engine was running.
-You entered Valet Mode after the Reservation Mode has been completed.

Valet Mode

While the vehicle is in valet mode, only the keyless entry function will be available. Valet Mode is very useful when loaning your vehicle or having it serviced.

In order to enter Valet mode, press buttons (I+III) simultaneously for a 1/2 second.
In order to manually enter Valet Mode, insert your key into the ignition and turn the ignition on, then off, (between ACC and ON) five times within 10 seconds.



You can exit Valet Mode only by pressing buttons (I+III) simultaneously for a 1/2 second.

Safety Shut Down Features

The CompuStar 2WAMR system has several shut down safety features.
The following actions will shut down the engine or prevent the car from auto-starting :
Opening the hood, pressing the brake, or if Valet Mode is turned on.

Turbo Mode

If this optional Turbo Mode has been programmed at the time of installation,
you can turn this feature on and off by pressing buttons (III+IV) for a 1/2 second.
In this mode, if the emergency brake has been set, the engine will continue to run after the key has been taken out of the ignition. It will run until two minutes after the emergency brake has been set.

- To utilize this mode, the emergency brake sensing wire has to be connected to the emergency brake wire of the vehicle. Consult the authorized dealer for this mode.
- This option is ideal for turbo-charged vehicles because it allows the turbo too slowly cool after operation.

Limited Lifetime Consumer Warranty

Firstech, LLC Warrants to the original purchaser that this product shall be free of defects in material and workmanship under normal use and circumstances for the period of time that the original owner of this product owns the vehicle in which it is installed ; except that the remote controller unit for the period of one year from the date of installation to the original owner of this product.

When the original purchaser returns the product to the retail store where it was purchased or prepaid postal to Firstech, LLC., 3415 S. 116th St Seattle, WA 98168, USA within the warranty period, and if the product is defective, Firstech, LLC, will at its option repair or replace such.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ANY AND ALL WARRANTIES ARE EXCLUDED BY THE MANUFACTURER AND EACH ENTITY PARTICIPATING IN THE STREAM OF COMMERCE THEREWITH.

THIS EXCLUSION INCLUDES BUT IS NOT LIMITED TO, THE EXCLUSION OF ANY AND ALL WARRANTY OF MERCHANTABILITY AND/OR ANY AND ALL WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY AND ALL WARRANTY OF NON-INFRINGEMENT OR PATENTS, IN THE UNITED STATES OF AMERICA AND/OR ABROAD.

NEITHER THE MANUFACTURER OF ANY ENTITIES CONNECTED THEREWITH SHALL BE RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR THE CONTROL MODULE AS DESCRIBED ABOVE.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages.

This warranty gives you specific legal rights, and you may also have other rights, which vary State to State.

Firstech, LLC. is not RESPONSIBLE OR LIABLE FOR ANY DAMAGES WHATSOEVER,INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE that may or may not resulted from the operation of Compustar.

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Your Warranty

The product's warranty is automatically void if its date code or serial number is defaced, missing or altered. This warranty will not be valid unless you have completed the registration card and mailed it to Firstech, LLC., within 10 days after the purchase to the address listed on the registration card.

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